

# A CONTROLLED POWER TRANSFER SYSTEM AND METHOD IN NETWORKS WITH SECTORS FED BY TWO DIFFERENT BATTERIES

## Abstract

A controlled power transfer system and method in networks with sectors fed by different batteries. An architecture with two batteries B1, B2 for networks (17, 18) provided with a unit CB1, CB2 with a control module (10, 11) of the SOC/SOH of B1, B2, power distribution boxes SDN1, SDN2, SDN3 with a microcontroller (1, 2, 3) and communications bus (19), is provided with a detecting device (30) of the voltage and/or polarity of an external supply susceptible to being connected to said batteries B1, B2, and controlled switching devices (33, 34) for routing the external power flow to one of batteries B1 or B2, said boxes SDN1, SDN2, SDN3 being interconnected and connected to said units CB1, CB2 for permanent monitoring of the SOC/SOH of said batteries B1 and B2 and to provide a controlled power transfer between them.